

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
P.O. Box 1450
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**REVOCATION OF PRIOR POWERS OF ATTORNEY
and
NEW POWER OF ATTORNEY**

The undersigned, authorized and acting on behalf of Azdel, Inc. (now Hanwha Azdel, Inc.), a Delaware corporation having a place of business at 2000 Enterprise Drive, Forest, VA 24551 US, and its domestic and foreign related entities, hereby revokes all powers of attorney previously given in the patent applications and patents listed on Schedule A appended hereto, and hereby appoints all practitioners of RHODES DONAHOE, PC associated with Customer Number

101012

as assignee's attorneys or agents with full power of substitution to take any and all action necessary with regard to the patent application referenced herein, and with regard to any patent, priority, divisional, continuing, continuation-in-part, substitute, renewal or reissue application(s), international applications or foreign equivalents thereof.

Please address all telephone calls to Christopher Rhodes (Reg. No. 47,022) at (540) 904-0398.

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101012

Date: 6/5, 2012

For AZDEL, INC. (now HANWHA AZDEL, INC.)

By: Tom Ebeling

Name: Thomas Ebeling, Ph.D.

Title: Vice-President, Technology +
Manufacturing Operations

SCHEDULE A

| FILE # | TITLE | APPLICATION # | PATENT NO. or PUBLICATION NO. | REF/FRAME NO. | RECORDATION DATE | ASSIGNEE |
|----------------|--|---------------|-------------------------------|---------------|------------------|-------------|
| HAN/07D-700110 | HIGH PERFORMANCE VEHICLE BUMPER | 07/034,016 | N/A | 008461/0900 | 4/17/1997 | Azdel, Inc. |
| HAN/07D-700130 | HIGH PERFORMANCE VEHICLE BUMPER | 07/091,926 | 5625574 | 008461/0900 | 4/17/1997 | Azdel, Inc. |
| HAN/07D-700119 | METHOD OF FABRICATING A HOLLOW COIL | 07/068,807 | 5348798 | 008317/0494 | 12/30/1992 | Azdel, Inc. |
| HAN/07D-700112 | STRUCTURAL MEMBER | 06/144,947 | N/A | 007421/0739 | 4/7/1995 | Azdel, Inc. |
| HAN/07D-700130 | FIBER REINFORCED FUNCTIONALIZED POLYESTER COMPOSITES | 06/396,122 | 5649899 | 007421/0739 | 4/7/1995 | Azdel, Inc. |
| HAN/07D-700110 | POLYESTER COMPOSITES | 06/396,122 | 5649899 | 007421/0739 | 4/7/1995 | Azdel, Inc. |
| HAN/07D-700110 | POLYPROPYLENE FIBER COMPOSITES | 06/392,714 | 5627226 | 014515/0190 | 4/14/2004 | Azdel, Inc. |
| HAN/07D-700110 | SECTION AUTOMOTIVE BUMPER FORMED | 09/311,574 | 6286879 | 010700/0924 | 3/20/2000 | Azdel, Inc. |
| HAN/07D-700210 | TRIM MINERAL-FILLED GLASS MAT THERMOPLASTIC (GMT) COMPOSITE | 10/096,869 | 2050095/415 | 014567/0295 | 10/30/2003 | Azdel, Inc. |
| HAN/07D-700210 | GLASS MAT THERMOPLASTIC COMPOSITE | 11/411,238 | 7977685 | 016647/0438 | 5/31/2005 | Azdel, Inc. |
| HAN/07D-700210 | Close mat thermoplastic composite | 10/890,506 | 7157034 | 015107/0979 | 3/15/2004 | Azdel, Inc. |
| HAN/07D-700310 | TWO-SHEET THERMOFORMING PROCESS | 10/981,338 | 7255391 | 013102/0979 | 3/15/2004 | Azdel, Inc. |
| HAN/07D-700270 | IMPACT RESISTANT THERMOFORMING PROCESS | 10/920,205 | 7318498 | 013058/0955 | 8/9/2004 | Azdel, Inc. |
| HAN/07D-700310 | DECORATIVE INTERIOR SOUND-ABSORBING PANEL | 10/810,739 | 7445501 | 05810/0017 | 3/24/2005 | Azdel, Inc. |
| HAN/07D-700219 | FIBER REINFORCED THERMOPLASTIC SHEETS WITH SURFACE COVERINGS | 11/441,709 | 7686097 | 017935/0956 | 5/26/2006 | Azdel, Inc. |
| HAN/07D-700320 | FIBER REINFORCED THERMOPLASTIC SHEETS WITH SURFACE COVERINGS | 13/427,131 | N/A | 017935/0956 | 5/26/2006 | Azdel, Inc. |
| HAN/07D-700320 | IMPROVED THERMOPLASTIC SHEETS WITH SURFACE COVERINGS | 10/883,535 | 7431080 | 015979/0493 | 11/8/2004 | Azdel, Inc. |
| HAN/07D-700119 | COMPOSITE THERMOPLASTIC SHEETS INCLUDING NATURAL FIBERS | | | | | |

SCHEDULE A

| FILE # | TITLE | APPLICATION # | PATENT NO. or PUBLICATION NO. | REEL/FRAME NO. | RECORDATION DATE | ASSIGNEE |
|--------------|---|---------------|-------------------------------|----------------|------------------|------------|
| HAN/20-00110 | Fiber reinforced thermoplastic composite including mechanical fiber | 11/058,776 | 20060102917 | 012389/0385 | 2/16/2005 | Adel, Inc. |
| HAN/20-00119 | COMPOSITE THERMOPLASTIC SHEETS INCLUDING AN INTEGRAL FIBER LIGHTWEIGHT COMPOSITE | 11/112,651 | 7482048 | 015905/0102 | 4/22/2005 | Adel, Inc. |
| HAN/20-00119 | THERMOPLASTIC SHEETS INCLUDING STRENGTHENING SOINS | 11/278,748 | 7759667 | 017423/0060 | 4/5/2006 | Adel, Inc. |
| HAN/20-00119 | Method of increasing life in a fiber-reinforced thermoplastic sheet | 11/437,897 | 20070269644 | 017927/0050 | 5/19/2006 | Adel, Inc. |
| HAN/20-00180 | FIBER REINFORCED THERMOPLASTIC COMPOSITE MATERIAL | 11/645,979 | 20070306637 | 027839/0376 | 3/10/2012 | Adel, Inc. |
| HAN/20-00190 | Lightweight thermoplastic composite including reinforcing fibers | 11/784,515 | 20070368645 | 027839/0393 | 3/10/2012 | Adel, Inc. |
| HAN/20-00110 | Panel materials for vehicles and enclosures | 11/799,752 | 20080011729 | N/A | N/A | Adel, Inc. |
| HAN/20-00110 | Enhanced curved fiber-reinforced thermoplastic composite | 11/805,259 | 2008008869 | 027839/0448 | 3/10/2012 | Adel, Inc. |
| HAN/20-00110 | Modular composite sheet with improved adhesion at electric service temperature | 11/799,150 | 2008032094 | 027893/0445 | 3/10/2012 | Adel, Inc. |
| HAN/20-00110 | Thermoplastic composites with improved thermal and mechanical properties | 11/893,613 | 2009070019 | 027839/0436 | 3/10/2012 | Adel, Inc. |
| HAN/20-00240 | Lightweight fiber-reinforced thermoplastic material | 12/070,372 | 20090011210 | 027893/0479 | 3/10/2012 | Adel, Inc. |
| HAN/20-00240 | LIGHTWEIGHT THERMOPLASTIC COMPOSITE INCLUDING BI-FUNCTIONAL FIBER TAPES | 12/002,518 | 20090155522 | 027839/0466 | 3/10/2012 | Adel, Inc. |
| HAN/20-00260 | Thermoplastic composite material with improved smoke penetration, heat release, and mechanical properties | 12/220,410 | 20100021718 | 027837/0515 | 3/9/2012 | Adel, Inc. |
| HAN/20-00150 | Thermoplastic composite material with improved smoke penetration, heat release, and mechanical properties | 13/416,617 | N/A | 027837/0515 | 3/9/2012 | Adel, Inc. |